19. Explain the various types mobile messaging in detail.

20. Explain the following :

(a) 1G

(b) 2G and

(c) 3G devices.

APRIL/MAY 2025

CSEL64/BSEL64 — CELLULAR PHONES : PRINCIPLES AND PRACTICE (SBS IV)

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

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1. Expand TACs.

2. What is MSC?

3. Write the ability of high end smart phones.

4. What are various input mechanism and in mobile?

5. Mention the type of modulation used in fast frequency hopping?

6. Give the features of digital speech coding.

7. What do you understand by EMS?

8. What is sniffing?

9. Name any two network protocols.

10. What are the advantages of 2G devices?

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Describe the cellular network.

Or

(b) Comment on the salient features of base station.

12. (a) Describe briefly palm sized PDA.

Or

(b) Give an account on low end smart phones.

13. (a) Describe the channel coding and decoding.

Or

(b) Outline the salient features of network management software.

14. (a) Describe the mobile message oriented middleware.

Or

(b) Discuss the security threats middleware.

15. (a) Outline the 2.5G applications.

Or

(b) Describe the following

(i) TDMA (2G)

(ii) GSM (2G)

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the types of call handover.

17. Classify mobile phones and explain each.

18. Discuss in detail about the signal processing in cellular.